

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP J3/04819

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G02B5/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 773 178 A (SHIOTA ATSUSHI ET AL) 30 June 1998 (1998-06-30) column 4, line 15 -column 6, line 22; figure 5	1-9
Y	US 6 090 332 A (HENDRICKX ERIC ET AL) 18 July 2000 (2000-07-18) column 38, line 3 - line 38; figure 18	1-9
Y	EP 0 708 352 A (DAINIPPON INK & CHEMICALS ;KUREHA CHEMICAL IND CO LTD (JP)) 24 April 1996 (1996-04-24) page 5, line 55 -page 6, line 9	1-9
Y	US 2002/024625 A1 (ANDERSON DUNCAN JAMES ET AL) 28 February 2002 (2002-02-28) paragraph '0034! - paragraph '0035!; figure 1	1-9
	--- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

1 March 2004

Date of mailing of the international search report

08/03/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

THEOPISTOU, P

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/JP 03/04819

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 978 055 A (VAN HAAREN JOHANNES A M M ET AL) 2 November 1999 (1999-11-02) column 4, line 51 - line 53 column 6, line 10 - line 18; figures 2-4 -----	1-9
Y	WO 02 01260 A (JIANG YINGQUI ; REVEO INC (US); HOCHBAUM AHARON (US)) 3 January 2002 (2002-01-03) page 6, line 13 - line 31 -----	1-9
A	BROER D J: "IN-SITU PHOTOPOLYMERIZATION OF ORIENTED LIQUID-CRYSTALLINE ACRYLATES, 3A). \ORIENTED POLYMER NETWORKS FROM A MESOGENIC DIACRYLATE" MAKROMOLEKULARE CHEMIE, MACROMOLECULAR CHEMISTRY AND PHYSICS, HUTHIG UND WEPF VERLAG, BASEL, CH, vol. 190, no. 9, 1 September 1989 (1989-09-01), pages 2255-2268, XP000330152 ISSN: 0025-116X the whole document -----	1-9

Form PCT/ISA/210 (continuation of second sheet) (July 1992)

page 2 of 2

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

Information on patent family members

Inter Application No

PCT/18 03/04819

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5773178	A	30-06-1998	JP 10100247 A	21-04-1998
US 6090332	A	18-07-2000	US 6402994 B1	11-06-2002
EP 0708352	A	24-04-1996	JP 8122708 A	17-05-1996
			DE 69527828 D1	26-09-2002
			DE 69527828 T2	05-12-2002
			EP 0708352 A1	24-04-1996
			US 5820779 A	13-10-1998
US 2002024625	A1	28-02-2002	GB 2321717 A	05-08-1998
			EP 0860718 A2	26-08-1998
			JP 10260387 A	29-09-1998
			US 6339464 B1	15-01-2002
US 5978055	A	02-11-1999	DE 69703081 D1	19-10-2000
			DE 69703081 T2	03-05-2001
			EP 0840904 A1	13-05-1998
			EP 0839172 A1	06-05-1998
			EP 0865630 A1	23-09-1998
			WO 9744702 A1	27-11-1997
			WO 9744409 A1	27-11-1997
			WO 9744703 A1	27-11-1997
			JP 11509650 T	24-08-1999
			JP 11509578 T	24-08-1999
			JP 11509651 T	24-08-1999
			TW 494263 B	11-07-2002
WO 0201260	A	03-01-2002	AU 6696601 A	08-01-2002
			AU 7131801 A	08-01-2002
			WO 0201260 A1	03-01-2002
			WO 0201285 A1	03-01-2002
			US 2002075434 A1	20-06-2002
			US 2001055083 A1	27-12-2001